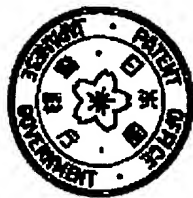


(19)



Generated Document.

(11) Publication number:

**62278770 A**

**PATENT ABSTRACTS OF JAPAN**

(21) Application number: 61120218

(51) Intl. Cl.: H01M 8/06 C21C 5/38

(22) Application date: 27.05.86

(30) Priority:

(43) Date of application  
publication: 03.12.87

(84) Designated contracting  
states:

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**(54) RECOVERING  
METHOD OF CO2 AND H2  
FROM CONVERTER GAS**

(57) Abstract:

**PURPOSE:** To increase utilization by treating converter gas with a pressure swing adsorber (PSA), treating again with a PSA installed in series, and supplying the obtained H2 to a fuel cell to generate electric power and recovering exhaust heat as steam.

**CONSTITUTION:** LD converter gas is modified to H2, and treated with a pressure swing adsorber (PSA) 3 through a absorbin tower 1, and offgas RH2 which contains other

gasses in addition to  $H_2$  is stored in a holder 4. The offgas  $RH_2$  is treated with a PSA 6 installed in series to obtain  $H_2$ . The  $H_2$  obtained is supplied to a negative electrode 13 of a fuel cell 15 and reacted with oxygen in a positive electrode 14 to generate electric power. Exhaust gasses from the negative electrode 13 and the positive electrode 14 are supplied to a combustor 18 to completely burn and exhaust heat is recovered in a boiler 19. Therefore, electric power, steam, and fuel gas can be obtained from offgas from purification equipment of converter gas, and utilization is increased.

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